

# EUROPEAN PATENT OFFICE

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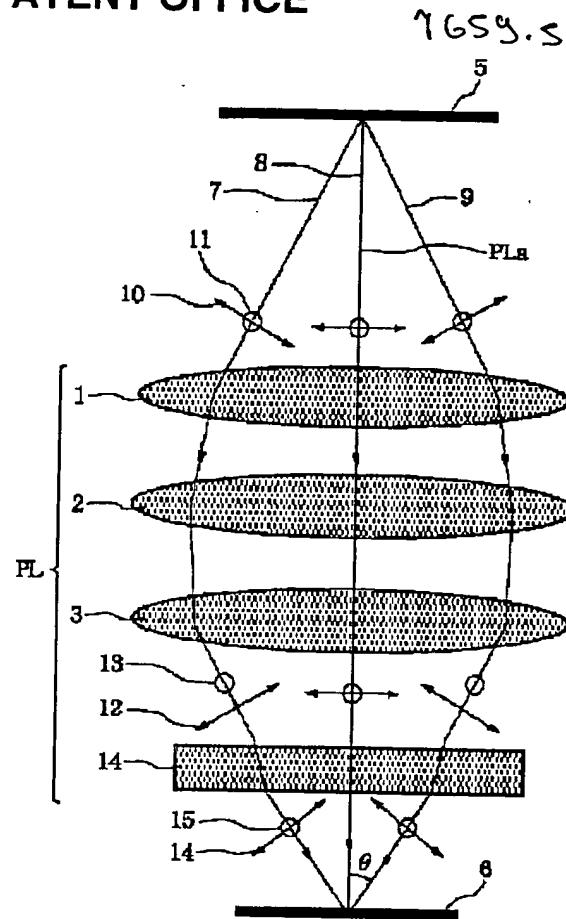
APPLICATION DATE : 13-03-00  
 APPLICATION NUMBER : 2000068536

APPLICANT : CANON INC;

INVENTOR : UNNO YASUYUKI;

INT.CL. : H01L 21/027 G02B 13/24 G03F 7/22

TITLE : PROJECTION OPTICAL SYSTEM AND PROJECTION ALIGNER USING THE SAME



ABSTRACT : PROBLEM TO BE SOLVED: To highly precisely image-form a pattern by correcting birefringence having an optical element included in a projection optical system,

SOLUTION: In this projection optical system, a projection optical system PL having plural lens elements 1, 2, and 3 is provided with a birefringence correcting member made of one-axial crystal having a main axis in an optical axial direction and/or materials having distortion distribution equivalent to the one-axial crystal. Thus, birefringence generated by the plural lens elements 1, 2, and 3 can be canceled by the birefringence correcting member.

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